NIST Center for Neutron Research (NCNR)

Live Report

22-Feb-2004 8:13:33 AM

There are a total of **27** responses for the selected group from 15-Feb-2004 to 21-Feb-2004.

1. Your position

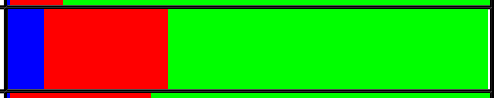
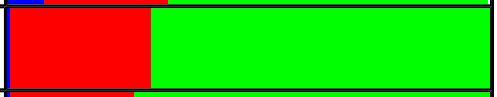
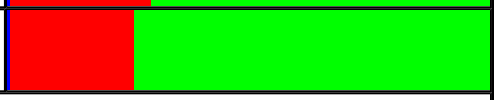
Percent	Count	Answers
0.0%	0/27	Graduate Student
100.0%	27/27	Post-doc
0.0%	0/27	Professor
0.0%	0/27	Staff Scientist
0.0%	0/27	Other
100.0%	**27/27**	**Summary**

2. Your primary instrument (Please use this instrument as the basis for answers to sections 3 and 4)

Percent	Count	Answers
11.1%	3/27	30m SANS, NG3
14.8%	4/27	30m SANS, NG7
7.4%	2/27	8m SANS, NG1
7.4%	2/27	Reflectometer, horizontal sample geometry, NG7
3.7%	1/27	Reflectometer, polarized beam option, vertical geometry, NG1
14.8%	4/27	Disk Chopper Spectrometer, NG4
0.0%	0/27	Backscattering Spectrometer, NG2
0.0%	0/27	Spin-Echo Spectrometer, NG5
7.4%	2/27	Cold Neutron Triple-Axis (SPINS), NG5
0.0%	0/27	USANS, BT5
14.8%	4/27	Powder Diffractometer, BT1

0.0%	0/27	Residual Stress Diffractometer, BT8
7.4%	2/27	Filter Analyzer Spectrometer (FANS), BT4
7.4%	2/27	Triple-Axis Spectrometer with polarized beam option, BT2
3.7%	1/27	Triple-Axis Spectrometer, BT9
100.0%	**27/27**	**Summary**

3. Please rate the proposal process

1) Ease of proposal submission	2.9/3	
2) Referee reports and PAC comments	2.6/3	
3) Proposal process fairness	2.7/3	
4) Scheduling process following approval	2.7/3	

Legends:
Poor
Adequate
Excellent
Overall rating based on the scale from 1 to 3

1) Ease of proposal submission

Percent	Count	Answers
0.0%	0/27	Poor
11.1%	3/27	Adequate
88.9%	24/27	Excellent
100.0%	**27/27**	**Summary**
	2.9/3	Overall rating from 1 to 3

2) Referee reports and PAC comments

Percent	Count	Answers
7.4%	2/27	Poor
25.9%	7/27	Adequate
66.7%	18/27	Excellent
100.0%	**27/27**	**Summary**
	2.6/3	Overall rating from 1 to 3

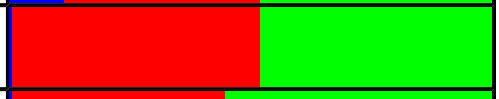
3) Proposal process fairness

Percent	Count	Answers
0.0%	0/27	Poor
29.6%	8/27	Adequate
70.4%	19/27	Excellent
100.0%	**27/27**	**Summary**
2.7/3		Overall rating from 1 to 3

4) Scheduling process following approval

Percent	Count	Answers
0.0%	0/27	Poor
25.9%	7/27	Adequate
74.1%	20/27	Excellent
100.0%	**27/27**	**Summary**
2.7/3		Overall rating from 1 to 3

4. Please rate the effectiveness of the health physics training

1) Relevance of computer based training content	2.4/3	
2) Efficiency of computer based training	2.4/3	
3) NCNR Health Physics tour	2.5/3	
4) Discussion/exam review with health physicist	2.6/3	
5) Refresher/Reindoctrination Training	2.4/3	

Legends:
Poor
Adequate
Excellent
Overall rating based on the scale from 1 to 3

1) Relevance of computer based training content

Percent	Count	Answers
3.7%	1/27	Poor
48.1%	13/27	Adequate
48.1%	13/27	Excellent

100.0%	27/27	Summary
	2.4/3	Overall rating from 1 to 3

2) Efficiency of computer based training

Percent	Count	Answers
11.1%	3/27	Poor
40.7%	11/27	Adequate
48.1%	13/27	Excellent
100.0%	**27/27**	**Summary**
	2.4/3	Overall rating from 1 to 3

3) NCNR Health Physics tour

Percent	Count	Answers
0.0%	0/27	Poor
51.9%	14/27	Adequate
48.1%	13/27	Excellent
100.0%	**27/27**	**Summary**
	2.5/3	Overall rating from 1 to 3

4) Discussion/exam review with health physicist

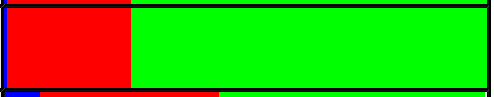
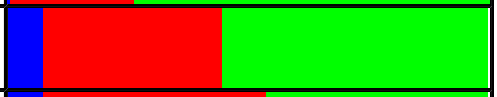
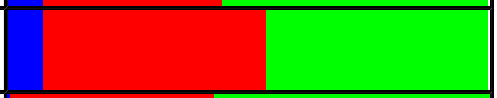
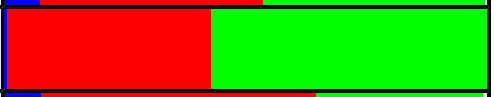
Percent	Count	Answers
0.0%	0/27	Poor
44.4%	12/27	Adequate
55.6%	15/27	Excellent
100.0%	**27/27**	**Summary**
	2.6/3	Overall rating from 1 to 3

5) Refresher/Reindoctrination Training

Percent	Count	Answers
0.0%	0/27	Poor
59.3%	16/27	Adequate
40.7%	11/27	Excellent
100.0%	**27/27**	**Summary**
	2.4/3	Overall rating from 1 to 3

5. Please rate the user support facilities

1) User Laboratory		

facilities	4.2/5	
2) Tools and supplies in support labs	4.2/5	
3) User Offices	3.6/5	
4) NCNR computers for users	3.3/5	
5) Network access for user laptops	3.7/5	
6) Break/snack room facilities	3.0/5	

Legends:
Poor
Adequate
Excellent
Overall rating based on the scale from 1 to 5

1) User Laboratory facilities

Percent	Count	Answers
0.0%	0/27	Poor
25.9%	7/27	Adequate
74.1%	20/27	Excellent
100.0%	**27/27**	**Summary**
4.2/5		Overall rating from 1 to 5

2) Tools and supplies in support labs

Percent	Count	Answers
0.0%	0/27	Poor
25.9%	7/27	Adequate
74.1%	20/27	Excellent
100.0%	**27/27**	**Summary**
4.2/5		Overall rating from 1 to 5

3) User Offices

Percent	Count	Answers
7.4%	2/27	Poor
37.0%	10/27	Adequate
55.6%	15/27	Excellent
100.0%	**27/27**	**Summary**

3.6/5 Overall rating from 1 to 5

4) NCNR computers for users

Percent	Count	Answers
7.7%	2/26	Poor
46.2%	12/26	Adequate
46.2%	12/26	Excellent
100.0%	**26/26**	**Summary**

3.3/5 Overall rating from 1 to 5

5) Network access for user laptops

Percent	Count	Answers
0.0%	0/26	Poor
42.3%	11/26	Adequate
57.7%	15/26	Excellent
100.0%	**26/26**	**Summary**

3.7/5 Overall rating from 1 to 5

6) Break/snack room facilities

Percent	Count	Answers
7.7%	2/26	Poor
57.7%	15/26	Adequate
34.6%	9/26	Excellent
100.0%	**26/26**	**Summary**

3.0/5 Overall rating from 1 to 5

6. Please rate the following aspects of sample environments

1) Availability of different sample environments	4.0/5
2) Quality and reliability of the equipment	4.1/5
3) Support from sample environment personnel	4.5/5

Legends:
Poor
Adequate
Excellent
Overall rating based on the scale from 1 to 5

1) Availability of different sample environments

Percent	Count	Answers
0.0%	0/27	Poor
33.3%	9/27	Adequate
66.7%	18/27	Excellent
100.0%	**27/27**	**Summary**
	4.0/5	Overall rating from 1 to 5

2) Quality and reliability of the equipment

Percent	Count	Answers
7.4%	2/27	Poor
18.5%	5/27	Adequate
74.1%	20/27	Excellent
100.0%	**27/27**	**Summary**
	4.1/5	Overall rating from 1 to 5

3) Support from sample environment personnel

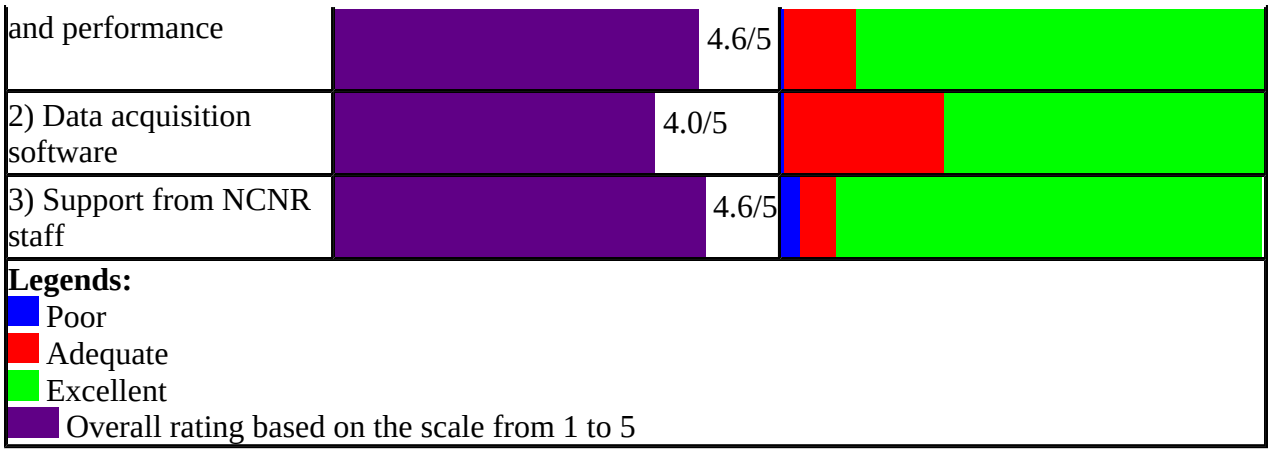
Percent	Count	Answers
0.0%	0/26	Poor
15.4%	4/26	Adequate
84.6%	22/26	Excellent
100.0%	**26/26**	**Summary**
	4.5/5	Overall rating from 1 to 5

7. What other sample environments would you research benefit from

- higher magnetic field
- I would like to know the exact temperature of sample in the shear cell
- increase the number of detectors (compared to 32 at present) could be helpful
- high pressure, low temperature
- This instrument would benefit from more interaction with the sample environments staff.

8. Please rate your primary NCNR instrument

1) Hardware reliability		



1) Hardware reliability and performance

Percent	Count	Answers
0.0%	0/27	Poor
14.8%	4/27	Adequate
85.2%	23/27	Excellent
100.0%	**27/27**	**Summary**
	4.6/5	Overall rating from 1 to 5

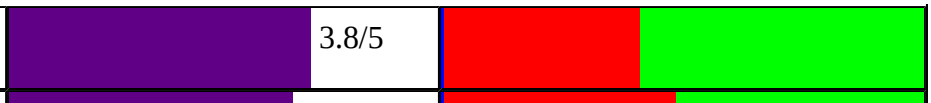
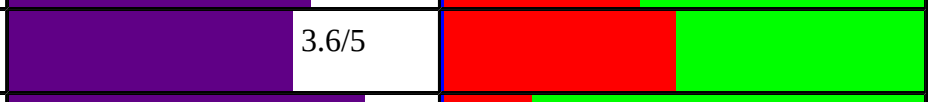
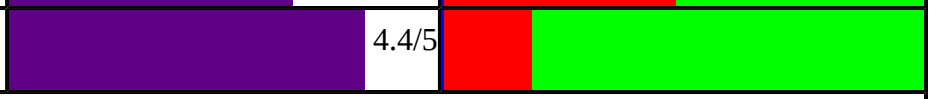
2) Data acquisition software

Percent	Count	Answers
0.0%	0/27	Poor
33.3%	9/27	Adequate
66.7%	18/27	Excellent
100.0%	**27/27**	**Summary**
	4.0/5	Overall rating from 1 to 5

3) Support from NCNR staff

Percent	Count	Answers
3.7%	1/27	Poor
7.4%	2/27	Adequate
88.9%	24/27	Excellent
100.0%	**27/27**	**Summary**
	4.6/5	Overall rating from 1 to 5

9. Please rate data analysis and visualization software at the NCNR

1) Quality of software	 3.8/5
2) Range of capabilities	 3.6/5
3) Assistance from NCNR staff	 4.4/5

Legends:
Poor
Adequate
Excellent
Overall rating based on the scale from 1 to 5

1) Quality of software

Percent	Count	Answers
0.0%	0/27	Poor
40.7%	11/27	Adequate
59.3%	16/27	Excellent
100.0%	**27/27**	**Summary**
	3.8/5	Overall rating from 1 to 5

2) Range of capabilities

Percent	Count	Answers
0.0%	0/27	Poor
48.1%	13/27	Adequate
51.9%	14/27	Excellent
100.0%	**27/27**	**Summary**
	3.6/5	Overall rating from 1 to 5

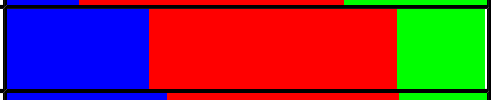
3) Assistance from NCNR staff

Percent	Count	Answers
0.0%	0/27	Poor
18.5%	5/27	Adequate
81.5%	22/27	Excellent
100.0%	**27/27**	**Summary**
	4.4/5	Overall rating from 1 to 5

10. What other data analysis tools would your research benefit from

- Desmearing
- Microcal Origin and Matlab.
- Brian Toby and the rest of the crystallography community participate in an excellent shareware website that has just about any data analysis tool needed.
- More raw data comparing utilities

11. Please rate to what extent these forms of remote access (would) benefit your research program

1) Remote viewing of instrument status and data	2.1/3	
2) Remote control of instrument	1.9/3	
3) Mail in samples for simple, well defined measurements	1.9/3	

Legends:
Not for me
Useful
Essential
Overall rating based on the scale from 1 to 3

1) Remote viewing of instrument status and data

Percent	Count	Answers
14.8%	4/27	Not for me
55.6%	15/27	Useful
29.6%	8/27	Essential
100.0%	**27/27**	**Summary**
	2.1/3	Overall rating from 1 to 3

2) Remote control of instrument

Percent	Count	Answers
29.6%	8/27	Not for me
51.9%	14/27	Useful
18.5%	5/27	Essential
100.0%	**27/27**	**Summary**
	1.9/3	Overall rating from 1 to 3

3) Mail in samples for simple, well defined measurements

Percent	Count	Answers
33.3%	9/27	Not for me

48.1%	13/27	Useful
18.5%	5/27	Essential
100.0%	**27/27**	**Summary**
	1.9/3	Overall rating from 1 to 3

12. **Please list any neutron instruments not currently at the NCNR that would benefit your research program or the community in general.**

- BT7
- Higher resolution on the BT-1 diffractometer would be greatly beneficial.
- I have been really impressed with the new neutron control software at ORNL - perhaps NIST should consider a similar interface.

13. **Are there any other comments or suggestions about the NCNR that you would like to add?**

- It is an excellent facility which has been an integral part of the research group that I am in over the years. Our studies at NCNR have increased our understanding of complex fluids and in assembling new structures.
- The NCNR is an excellent resource for science in the US. I realize that there is a large pool of users for the available instruments, but the time seems fairly distributed. However, it would be nice if all of the barriers for doing science there could be examined .
- The NCNR is the only place on the east coast with a constant wavelength neutron source and is essential to my research on complex metal oxides and the crystallography community in general. User time is apportioned in a reasonable process, given the recent cuts in funding to NIST and the NCNR. Furthermore, the outreach program through the University of Maryland and the summer school on neutron scattering are invaluable forums for introducing new users to the instrumentation and encouraging them to take advantage of the unique properties of neutron radiation. It would severely hurt the advancement of both applied and basic sciences (already affected by the closure of the HFBR at Brookhaven) should this facility not be supported in full.
- The NCNR has the best user program of all the neutron sources that I have done experiemnts at. The quality an reliability of the instruments is amazing, as is the publication record coming out of the NIST community.
- The facility has grown into the world leader by providing facilities in which each instrument operates with minimal user technical problems. All problems are taken care of by the staff including setting up the experiment and providing training for the users. In my experience with two other facilities, no facility has allowed such ease in performing experiments and taking the data home for analysis. This is because the NCNR has considered that by minimizing forseeable problems for the user they can complete their experiments sooner allowing more users per cycle.